

## ABSTRACT OF THE DISCLOSURE

- A ceramic article is disclosed which contains aluminum, silicon, and titanium in a total amount of at least 99 % by weight as reduced to the oxides ( $\text{Al}_2\text{O}_3 + \text{SiO}_2 + \text{TiO}_2$ ) and assumes an acidic color in methyl red, an indicator of at least  $\text{pK}_a + 4.8$ . It can be used as a carrier for a catalyst. This ceramic article is obtained by mixing an aluminum compound, a silicon compound, and a titanium compound and calcining the resultant mixture at a temperature in the range of  $1,000^\circ - 2,000^\circ\text{C}$ .
- 10 A catalyst for preparing ethylene oxide is obtained by depositing silver and a reaction promotor on the ceramic carrier and ethylene oxide is obtained by oxidizing ethylene with a molecular oxygen-containing gas in the presence of the catalyst in vapor phase.